

CLAIMS

Amend the claims as follows.

1. (Currently Amended) An apparatus, comprising:

a point light source;

a photodetector;

a lens, positioned in the same side of said point light source and said photodetector, said lens ~~capable of focusing~~ configured to focus a light from said point light source onto a target area of an object through said lens, and ~~capable of focusing~~ further configured to focus a reflected light from said target area of said object onto said photodetector through said lens; and

wherein said object comprises a test strip comprising a light-absorbing area ~~capable of occurring~~ configured to occur in response to a specific component of a tested solution contacting therewith and ~~capable of absorbing~~ further configured to absorb said light emitting from said point light source; and

wherein said point light source is ~~capable of radiating~~ configured to radiate a light with a first wavelength and a light with a second wavelength, wherein said tested solution contained in said light-absorbing area of said test strip is ~~capable of absorbing~~ configured to absorb said light with the first wavelength, wherein a sampling amount of said tested solution is determined in accordance with the reflectance of said light with the first wavelength from said light-absorbing area, and wherein said light-absorbing area is ~~capable of occurring~~ configured to occur in response to said specific component of said tested solution and is ~~capable of absorbing~~ further configured to absorb said light with the second wavelength, and wherein a content of said specific component is determined in accordance with the reflectance of said light with the second wavelength from said light-absorbing area.

2. (Currently Amended) The apparatus of claim 1, further comprising a holder ~~capable of holding~~ configured to hold said point light source at a first end thereof and ~~holding~~ further configured to hold said photodetector at a second end thereof, opposite said first end.

3. (Currently Amended) The apparatus of claim 1, wherein said object is placed at a focal position of said lens.
4. (Previously presented) The apparatus of claim 1, wherein said point light source comprises a light emitting diode.
5. (Currently Amended) The apparatus of claim 1, wherein said photodetector is capable of generating configured to generate a response current in response to said reflected light from said target area of said object.
6. (Currently Amended) The apparatus of claim 5, wherein said photodetector comprises one or more of the following: a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.
7. (Cancelled)
8. (Cancelled)
9. (Currently Amended) The apparatus of claim 1, wherein said specific component of said tested solution to be detected by the photodetector depends on an enzyme system contained in said test strip.
10. (Previously presented) The apparatus of claim 9, further comprising means for monitoring a concentration of glucose in a blood sample.
11. (Previously presented) The apparatus of claim 9, further comprising means for monitoring a concentration of cholesterol in a blood sample.

12. (Currently Amended) An apparatus, comprising:

a holder;

a point light source disposed at a first edge of said holder;

a photodetector disposed at a second edge of said holder opposite said first edge, said first edge and said second edge formed on the same side of said holder; and

a lens disposed at the same side of said point light source and said photodetector, said lens ~~capable of focusing~~ configured to focus a light from said point light source through said lens onto a target area of an object placed at a focal position of said lens, and ~~capable of focusing~~ further configured to focus a reflected light from said target area of said object onto said photodetector through said lens.

13. (Currently Amended) The apparatus of claim 12, wherein:

said point light source radiates a light with a first wavelength and ~~radiates a light with a~~ second wavelength at a tested solution in the target area of the object; and

the photodetector determines a sampling amount of said tested solution on the object in accordance with ~~the a~~ reflectance of said reflected light with the first wavelength and determines a content of a component in said tested solution in accordance with ~~the a~~ reflectance of said reflected light with the second wavelength.

14. (Currently Amended) The apparatus of claim[[.]] 12, wherein said photodetector is ~~capable of generating~~ configured to generate a response current in response to said reflected light from said target area of said object.

15. (Currently Amended) The apparatus of claim 14, wherein said photodetector comprises one or more of the following: a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

16. (Currently Amended) The apparatus of claim 12, wherein said object comprises a test strip comprising a light-absorbing area ~~capable of occurring~~ configured to occur in response to a specific component of a tested solution contacting therewith, and ~~capable of absorbing~~ further configured to absorb said light emitting from said point light source.

17. (Currently Amended) An apparatus, comprising:
a point light source configured to radiate a light with a first wavelength and ~~radiate a light with~~ a second wavelength;
a lens configured to focus the light from said point light source through said lens onto a target area of an object placed at a focal position of said lens, wherein said point light source is configured to radiate the light with the first wavelength and ~~radiate the light with~~ the second wavelength onto a tested solution contained in said target area of said object, wherein the same or a different lens is also configured to focus a reflected light from said tested solution; and
a photodetector configured to detect a reflectance of said reflected light with the first wavelength from said tested solution, and detect a reflectance of said reflected light with the second wavelength from said tested solution.

18. (Currently Amended) The apparatus of claim 17, wherein a sampling amount of the said tested solution ~~in said target area~~ is determined in accordance with the reflectance of said reflected light with the first wavelength from said target area, and a content of said tested solution is determined in accordance with the reflectance of said reflected light with the second wavelength from said target area.

19. (Currently Amended) The apparatus of claim 17, wherein the reflectance of said reflected light is used for monitoring a concentration of glucose in a blood sample.

20. (Currently Amended) The apparatus of claim 17, wherein the reflectance of said reflected light is used for monitoring a concentration of cholesterol in a blood sample.

21. (Currently Amended) An apparatus, comprising:
means for emitting a light ~~at~~ with a first wavelength and ~~at~~ a second wavelength onto a target area of an object;
means for focusing said light onto said target area of said object[[;]] and for focusing light reflected from said object; and

means for detecting a reflectance of said reflected light with the first wavelength from said target area of said object and detecting a reflectance of said reflected light with the second wavelength from said target area of said object.

22. (Previously presented) The apparatus of claim 21, wherein said object is placed at a focal position of said means for focusing.

23. (Currently Amended) The apparatus of claim 21, wherein a sampling amount of a tested solution in said target area is determined in accordance with the reflectance of said reflected light with the first wavelength from said target area, and a content of said tested solution is determined in accordance with the reflectance of said reflected light with the second wavelength from said target area.

24. (Currently Amended) The apparatus of claim 21, wherein said means for detecting is capable of generating configured to generate a response current in response to said reflected light.

25. (Currently Amended) The apparatus of claim 24, wherein said means for detecting comprises one or more of a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

26. (Currently Amended) The apparatus of claim 21, wherein said object comprises a test strip comprising a light-absorbing area capable of occurring configured to occur in response to a specific component of a tested solution contacting therewith, and capable of absorbing further configured to absorb said light emitting from said point light source.

27. (Cancelled)

28. (Currently Amended) The apparatus of claim 26, wherein said specific component of said tested solution to be detected by said means for detecting depends on an enzyme system contained in said test strip.

29. (Previously presented) The apparatus of claim 28, further comprising means for monitoring a concentration of glucose in a blood sample.

30. (Previously presented) The apparatus of claim 28, further comprising means for monitoring a concentration of cholesterol in a blood sample.

31. (Currently Amended) A method, comprising:

emitting a light onto a target area of an object via a light source located at a first end of a holder;

detecting a reflected light from said target area of said object via a photodetector located ~~opposite said first end~~ at a second end of said holder, opposite said first end;

focusing said light onto said target area of said object via a lens;

and focusing said reflected light onto said photodetector via [[a]] said lens;

radiating the light with a first wavelength and ~~radiating the light with~~ a second wavelength via said point light source onto a tested solution on said object;

detecting an amount of absorbtion of said light with the first wavelength via said tested solution contained on said object; and

detecting an amount of absorbtion of said light with the second wavelength via said tested solution contained on said object.

32. (Currently Amended) The method of claim 31, further comprising locating ~~placing~~ said object at a focal position of said lens.

33. (Previously Presented) The method of claim 31, further comprising using a light emitting diode to emit the light onto said target area of said object.

34. (Previously presented) The method of claim 31, further comprising generating a response current in response to said reflected light via said photodetector.

35. (Previously Presented) The method of claim 34, further comprising using one or more of a photodiode, a charge-coupled device, a complex metal oxide semiconductor sensor, or combinations thereof to detect the reflected light from said target area of said object.

36. (Currently Amended) The method of claim 31, wherein the said target area of said object comprises a light-absorbing area with a specific component of a tested solution capable of absorbing said light from said light source.

37. (Currently Amended) A method, comprising:

emitting a point of light onto a target area of an object via a point light source located at a first end of a holder;

detecting a reflected light from said target area of said object via a photodetector located ~~opposite said first end~~ at a second end of said holder, opposite said first end;

focusing said point of light onto said target area of said object via a lens positioned to the same side of said point light source and said photodetector;

~~and for~~ focusing said reflected light onto said photodetector via said lens via a lens positioned to the same side of said point light source and said photodetector;

producing a light-absorbing area on said object in response to a specific component of a tested solution contacting therewith, ~~and capable of absorbing wherein said light-absorbing area is configured to absorb~~ said light emitting from said point light source;

radiating [[a]] the point of light with a first wavelength and ~~a light with~~ a second wavelength via said point light source, absorbing said point of light with the first wavelength via said tested solution contained in said light-absorbing area of said object, and absorbing said point of light with the second wavelength via said ~~light-absorbing area tested solution~~.

38. (Previously Presented) The method of claim 36, wherein said specific component of said tested solution depends on an enzyme system contained in said object.

39. (Previously presented) The method of claim 38, further comprising monitoring a concentration of glucose in a blood sample.

40. (Previously presented) The method of claim 38, further comprising monitoring a concentration of cholesterol in a blood sample.

41. (Currently Amended) The method of claim 31, further comprising: determining a sampling amount of the said tested solution ~~on the object~~ in accordance with the a reflectance of said reflected light with the first wavelength from the said target area, and

determining a content of a component in said tested solution in accordance with the a reflectance of said reflected light with the second wavelength from said target area.

42. (Currently Amended) An apparatus, comprising:
a light source configured to radiate a light with a first wavelength and ~~radiate a light at~~ a second wavelength;
a lens configured to focus the light with the first wavelength and ~~focus the light with~~ the second wavelength onto a tested solution on an object, wherein the same or a different lens is also configured to focus a reflected light from said tested solution;
a photodetector configured to detect [[a]] the reflected light from said object; and
a device configured to determine a sampling amount of the said tested solution ~~on said object~~ in accordance with the a reflectance of said reflected light with the first wavelength from said object, and determine an amount of a specific component in the said tested solution in accordance with the a reflectance of said reflected light with the second wavelength from said object.

43. (Previously Presented) The apparatus of claim 42, further comprising a holder configured to hold said light source at a first edge and hold said photodetector at a second edge thereof opposite said first edge.

44. (Previously Presented) The apparatus of claim 42, wherein said object is located at a focal position of the lens.

45. (Previously Presented) The apparatus of claim 42, wherein said point light source comprises a light emitting diode.